SBR No. 9H/20-21
DATED 30-1-2021

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR No. 9H/20-21 Dt. 30-1-2021

No. 1st & Final bill
Date.....2010

Division: **Electrical (yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code :-002-20-000060**

Schedule Docket No. Head of Account : P-CODE:P 0303 D.R.No. :

Name of Work:-*Providing lines, poles, lights and meter service to 1st,2nd and 3rd B cross near Adithi malya school in ward no.2*

Name of Contractor and Full Address: **M/s Chowdeshwari Electricals**

Reference to Agreement No:EE/Ele/YZ/WO/000031/20-21 Date:01/10/2020

Certified that the measurements were taken by me on 20/1/21 and recorded of Pages 256785 to 788 of measurement Book No. 2568/19-20 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 20/1/21 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer **Sub Division Officer**

II Memorandum of Payment

		BBMP, Bangalore
1)	Total value of work done or supplies made as per account within	Bill= 2,97,417=00.
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 1% 2974=00 ✓
3)	" Balance	LWC 1% 2974=00 ✓
4)	Deduct Payment:	CBFD 1% 297=00 ✓
a)	Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of	Sbcst 1% 2554=00 ✓
b)	Payments Now made cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	Cbst 1% 2554=00. ✓
5)	Balance being unpaid value of work done held in reserve.	deductions = 11,353=00 ✓
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	Cheque 2,86,064=00 ✓
7)	Net amount due to or from Contractor	unadjustments items.
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

(For use in the Office)

Witness
1.
2.
Dated Signature of Contractor

Stamp

Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....

Initials of Officer making payment PO303. M&R to pumpsets

Executive Engineer

ರೂ 2,97,417=00 ಮೊತ್ತದ ಮಂಜೂರಿ ಸೂಚಿಸಿದೆ
ರೂ: 2,86,064=00 ಕ್ಕೆ ನಿವ್ವಳ ಮೊತ್ತಕ್ಕಾಗಿ
ರೂ: 11,353=00 ಕಂಪಾಣಿಕೆ ಮಾಡಿದೆ

ಲೆಕ್ಕ ಅಧೀಕ್ಷಕರು ಕಾ.ಪಾ.ಅ.(ವಿ) ರುಮಾಪಾಕ ಬೆಂಗಳೂರು

Sl. No	Description	Un
	Name Of Work:- Providing lines poles light & and meter Service to 1st 2nd and 3rd B Cross near 2nd 4th Malya School in ward No 2	
1	Digging of Pits 1.8 mtr depth for errection of 9 to 10mtr Long Steel/RCC/PSC supports as per approved Drawing.Ordinary Soil. bescom SR	Nos
2	Pole concreting with CC 1:2:4 (without coping) f) 8mtrs support (400x400x1500mm)	Nos
3	Any Dismantling work 90% of the corresponding erection charges(304x90%=273.6)	Nos
4	Transporting and erecting of 3.5 Mtrs long Swged Tubelor park poles including Digging of pit 45x45x100cms & providing 1:2:4 concrete of size 35x35x130 cms Including coping as per the detaild enclosed civil estimate & drawimg	Nos
5	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM KPWD ELE SR 2014-15	Per Mtr
6	2 Pin Cross Arm with pole clamp, bolt & nuts & washers for RCC Pole - MS	Nos
7	Piercing connector suitable for 16 sqmm - 95 sqmm AB cable -steel light connection. Bescom SR of 2010-11, Page no 16 of 34, Serial no 51.12.	Each
8	Suspension clamp assembly 25 to 95 sqmm bare messenger. Bescom SR of 2010-11, Page no 16 of 34, Sl no 51.17.	Each
9	Dead end clamp / Anchor clamp assembly 25 to 95 sqmm bare messenger, Bescom SR of 2010-11, Page no 16 o 34, Sl no 51.16.	Each
10	Universal Hook and Bolts and Nuts, Bescom SR of 2010-11, Page no 16 of 34, Sl no. 51.15.	Each
11	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mtr
12	B. Work to be carried out as per requirement & actuals and as per the direction of the in charge engineer, Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/looting of the pole.a)5 mtr pole 72/13.17.1	Each
13	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm 6/2.3.3	Mtrs
14	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories..Single bracket 1.5 Mtr. Length page-79/14.4.1	Each
15	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Powerconsumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED SourceLED Streetlight 70watts .KPWD ELE SR Page-66/12.8	Each
16	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.79/14.5	Each

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		7	370	2590.00	7	2590.00	
		7	980	6860.00	7	6860.00	
		7	270	1890.00	7	1890.00	
		7	970	6790.00	7	6790.00	
		825	142	117150.00	825	117150.00	
		26	160	4160.00	26	4160.00	
		12	145	1740.00	12	1740.00	
		15	280	4200.00	15	4200.00	
		6	140	840.00	6	840.00	
		16	280	4480.00	16	4480.00	
		825	10	8250.00	825	8250.00	
		16	550	8800.00	16	8800.00	
		78	68	5304.00	78	5304.00	
		9	1200	10800.00	9	10800.00	
		8	5480	43840.00	8	43840.00	
		10	175	1750.00	10	1750.00	

17	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S355JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended7 meters - Top 75mm and bottom 145 mm dia.page-12/4.4	Each
18	Supplay and erection of Single phase Thyristor based smart street light control system consisting of following aquipments 1. Precise turn ON & OFF of street lights on pre programmed data 2. 2 x 16 character LCD display unit to display date, status ON Or OFF , turn ON & OFF time, 3. Keypad to set/edit ON & OFF time as per the end user 4. Microcontroller with Real Time Clock and associated hardware 5. 1 No, SCR 162 amps thyristor module for load switching mounted on an extruded alluminium heat sink 6. Thyristor Driver Card: Driver control circuit to switch ON & OFF the Thyristor module 7. Firmware: Firmware to control the hardware and display the required data 8. Power Supply: AC to DC conversion circuit required for the electronic circuitry and driver control card 9. Enclosure is made out of 18 swg CRCA ms sheet of size H480xW310XD200mm with luvers for Heat dissipation IP65 weather proof metal enclosure 10. Wiring & other components like wiring, connectors ,insulators, Alluminium Bus bar and 2 nos of 125 amps single pole MCB for main power Supply control and Manual On & off operation & etc complete.	No
	Total Rs	
	Add GST Item No 12 to 17 Rs 95194.00 @ 12%	
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

		2	12350	24700.00	2	24700.00	
		1	31850	31850.00	1	31850.00	
				285994.00		**285994.00**	
				11423.28		11423.28	
				297417.28		**297417.28**	